# INDEX TO VOLUME XXIII

The asterisk * preceding the page number indicates an original article in this Journal. The letter T preceding the page number indicates a paper reported in the Transactions of the American Association of Neuropathologists. The letter D preceding the page number indicates a discussion of an original article or some other item published in the Journal. The letter B preceding the page number indicates a book review. Subject entries are made for all articles. Author entries are made for original articles and Society Transactions.


Abramowicz, A., see Romanul, F. C. A., T178
Acid phosphatases, influence of autolysis on the isolation and localization of, in rat brain, T202
Adams, R. A., L. van Bogaert, and H. Vander Eecken, striato-nigral degeneration, *584
Age, x-irradiation induced acute brain damage as a function of, T176, *446
Aleu, F. P., see Edelman, F. L., *1, T195
—, D173, D183
—, F. L. Edelman, R. Katzman, and L. C. Scheinberg, ultrastructural and biochemical (changes) analysis in cerebral edema associated with experimental mouse gliomas, T182, *253
—, D189
Allen, R. J., see Friede, R. L., *619
Allergic encephalomyelitis, production of, in rats without the aid of adjuvants, T190
Alvord, E., Jr., D167, D190
—, see Rand, B. O., T180, D181, *293
Amyloidosis, primary systemic; cerebral involvement and senile plaque formation, *135
Anderson, P. J., and N. Christoff, influence of autolysis on the isolation and localization of acid phosphatases in rat brain, T202, D202, D203
Appel, S., D194
Arterial border zones, pathological changes in brain and pial vessels in, T178
Astrocytes, giant, fibrous, cytologic and cytochemical studies of, III, the DNA content of, with implications concerning the nature of these cells, *419
Astrocytomas, electron microscopic observations on, T199
Aurebeck, G., K. Osterberg, M. Blaw, K. Swaiman, F. Wright, S. Chou, and E. Nelson, ultrastructural observations on metachromatic leukodystrophy, T184
Autolysis, influence of, on the isolation and localization of acid phosphatases in rat brain, T202
Autoradiography, determination of microscopic distribution of water soluble compounds by, technical note, *151
Autotransplantation of gliomas, *324
Axon regeneration in the human spinal cord with formation of neuromata, *127
Axonal dystrophy in vitamin E-deficiency, *60
—, an electron microscopic study of the gracile and cuneate nuclei of vitamin E deficient rats, T166
Axonal swellings, reactive, mechanisms involved in production of, T164
Azo-dye methods, staining of phosphatases of the central nervous system with, *477

Bakay L., and I. U. Hague, morphological and chemical studies in cerebral edema, I. cold induced edema, *393
Baker, R., D167
Balthasar, K., D201
Barium chloride, cerebral vasospasm induced by, and its interaction with other agents, T108
Barlow, C. F., D170, D174, D182
—, see Walters, G. V., T173
Barrnett, R. J., see Torack, R. M., *46
Barron, K. D., and T. O. Tuncbay, phosphatase histochemistry of feline cervical spinal cord after brachial plexectomy; hydrolysis of beta-glycerophosphate, thiamine pyrophosphate and nucleoside diphosphates, *368
—, D202, D203
—, J. Bernsohn, and A. R. Hess, esterases in human brain, T203, D203
Becker, D166, D192
Berg, O., and Bengt Källén, effect of mononuclear blood cells from multiple sclerosis patients on neuroglia in tissue culture, *550
Bernsohn, J., see Barron, K. D., T203
Biochemical and ultrastructural analysis in cerebral edema associated with experimental mouse gliomas, T182, *253
— and electron microscopic observations of a cerebral biopsy, a case of juvenile lipoidosis, T185
Biopsy, cerebral, a case of juvenile lipoidosis: electron microscopic and biochemical observations of a cerebral biopsy, T185
Blaw, M., see Aurebeck, G., T184
Blood-brain barrier, fine structural locali-

zation of nucleoside phosphatase activity in, *46
Blood supply to the human brain stem, correlation of, with clinical brain stem lesions, *78
Bluetongue vaccine virus, ovine fetal encephalopathy caused by, *635
Blumberg, J. M., see Lampert, P., *60
—, see Lampert, P., T166
—, see Price, H. M., T174
van Bogaert, L., see Adams, R. A., *584
Book reviews, B206, B387, b565, B729
Bornstein, M. H., D162, D193
Brachial plexectomy, phosphatase histochemistry, of feline cervical spinal cord after; hydrolysis of beta-glycerophosphate, thiamine pyrophosphate and nucleoside diphosphates, *368
Brain barrier mechanisms, electron microscopic studies of, T174
— damage, acute, as a function of age, x-irradiation induced, T176, *446
— stem lesions, clinical, correlation with blood supply to the human, *78
— — and spinal cord injury, latent, in the newborn, T178
Brownson, R. H., see Diller, D. A., D165, D196, T176, D177, *446
—, W. M. Shanklin, and D. B. Suter, a study in chronic brain radionecrosis, *660
Bruetsch, W. L., D179
Brun, A., V. Caviness, P. Rudnick, and H. R. Tyler, hemorrhages into peripheral nerves in association with leukemia, *719
Brundjar, K. H., see Lapham, L. W., *156
Burstone, M. S., see Kaluza, J. S., *477

Carnecki, G., T169
Case of juvenile lipoidosis; electron microscopic and biochemical observations of a cerebral biopsy, T185
Catheart, R. S. III, and W. C. Worthington, Jr., ciliary movement in the rat ventricles: clearing actions and directions of currents, *609
Caviness, V., see Brun, A., *719
Cavum septi pellucidi ependymal lining of, a histological and histochemical study, *355
Central ganglioneuroma, a case study using electron microscopy, T200, *692
Cerebellum, circumscribed sarcoma of, an electron microscopic study, *706
Cerebral vasospasm induced by barium chloride and its interaction with other agents, T168
Cerebrospinal fluid, passage of fluorescein labeled proteins into, *18
Cervical spinal cord, feline, phosphatase histochemistry of, after branchial plexectomy, hydrolysis of beta-glycerophosphate, thiamine pyrophosphate and nucleoside diphosphates, *368
Chen, Hai-Chin, kernicterus in the Chinese newborn, a morphological and spectrophotometric study, *527
Chinese newborn, kernicterus in, a morphological and spectrophotometric study, *527
Choroid plexus, penetration of serum proteins into the, T172
—, intracranial telencephalic meningoencephalocele containing, T180, *293
Chou, S., see Aurebeck, G., T184
—, see Duffell, D., T199
Christoff, N., see Anderson, P. J., T202
Chromatolysis, a study of, in dorsal root ganglia at the cellular level, *508
Ciliary movement in the rat ventricles: clearing action and direction of currents, *609
Circumscribed sarcoma of the cerebellum, an electron microscopic study, *706
Clasen, R. A., P. M. Cooke, S. Pandolfi, and G. Carnecki, the periodic acid-Schiff staining properties of edema fluid isolated from the brain, T169
—, D170, D171, D173
Cold injury, local, volume changes produced in edematous cat brain by, T170
— induced edema, morphological and chemical studies in cerebral edema, *393
Collins, G. H., see Webster, H. de F., *109, T161
Colloid cyst of third ventricle, an electron microscopic study, *431
Comparison of osmium tetroxide and glutaraldehyde perfusion fixation for the electron microscopic study of the normal rat peripheral nervous system, *109
Congenital intracranial neoplasm, a case report and review of the literature, *280
Cooke, P. M., see Clasen, R. A., T169
Cordy, D. R., see Young, S., *635
Correlation of the blood supply to the human brain stem with clinical brain stem lesions, *78
Cortex, rat, nerve fiber regeneration in, following damage from ionizing particle radiation, T175
Coxe, W. S., and Luse, S. A., colloid cyst of third ventricle, an electron microscopic study, *431
Cravioto, H., electron microscopy of developing human peripheral nerves, T163, D163, D186, D200
Cytologic and cytochemical studies of neuroglia, III the DNA content of giant fibrous astrocytes, with implications concerning the nature of these cells, *419

Davidoff, L. M., see Edelman, F. L., *1, T195
De Jong, R. N., see Tourtellote, W. W., T193
Demyer, W., see Zeman, W., *334
Diller, D. A., R. H. Brownson, and D. B. Suter, x-irradiation induced acute brain damage as a function of age, T176, *446
Duckett, S., and R. R. Wilson, fetal spongioblastoma, *560

Duffell, D., J. F. Hartmann, S. Chou, and E. Nelson, electron microscopic observations on astrocytomas, T199
Dystrophic axons in the gracile and cuneate nuclei of vitamin E-deficient rats, electron microscopic study of, *60
Dystrophy, neuroaxonal, in mucoviscidosis, *567

Edelman, F. L., F. Aleu, L. C. Scheinberg, J. C. Evans, and L. M. Davidoff effect of irradiation on the growth of intracerebral gliomas in mice, *1, T195, D196
—, see Aleu, F. P., T182, *253
Edema fluid isolated from brain, the periodic acid-Schiff staining properties of, T169
—, cerebral, associated with experimental mouse gliomas, ultrastructural and biochemical analysis in, T182, *253
—, —, in cats, sulfate space in, T173
—, morphological and chemical studes in, I. cold induced edema, *393
Edematous cat brain, volume changes produced by local cold injury, in, T170
Eecken, H. Vander, see Adams, R. D., *584
Effect of irradiation on the growth of intracerebral gliomas in mice, *1, T195
— of mononuclear blood cells from multiple sclerosis patients on neuroglia in tissue culture, *550
Electron microscopic observations of muscle injury, T175
— — study of dystrophic axons in the gracile and cuneate nuclei of vitamin E-deficient rats, *60
— — — of the rat peripheral nervous system, use of perfusion fixation, T161
— — — on Wallerian degeneration of optic nerve, T162
— microscopy of developing human peripheral nerves, T163
— microscopic studies of brain barrier mechanisms, T174
— — — on astrocytomas, T199
— — and biochemical observations of a cerebral biopsy, a case of juvenile lipoidosis, T185
— microscopy and light microscopy, morphological and histochemical studies of neurolipoidosis, by, T191
— microscopy, central ganglioneuroma: a case study using, T200, *692
— microscopic study, colloid cyst of third ventricle, *431
— — —, circumscribed sarcoma of the cerebellum, *706
Elliott, F. A., see Zacks, S. I., T161
Encephalopathy, ovine fetal, caused by bluetongue vaccine virus, *635
Endoplasmic reticulum, and Golgi apparatus in neurons of the rabbit, *36
Enzyme histochemical studies of Tay-Sachs disease, *619
Ependymal lining of the cavum septi pellucidi, a histological and histochemical study, *355
Estable, R. F. de, J. F. Estable-Puig, and J. Miguel, fixation and identification of glycogen in nervous tissue for light and electron microscopy studies, T181, D181
Estable-Puig, J. F., C. Tobias, and W. Haymaker, nerve fiber regeneration in rat cortex following damage from ionizing particle radiation, T175, D176
—, see Estable, R. F. de, T181
Evans, J. C., see Edelman, F. L., *1, T195
Exotic neurological disorders among natives of the highlands of New Guinea, neuropathologic findings in, T189, *486
Experimental studies on the production and prevention of cerebral infarction in dogs, *457
Extrapyramidal system diseases, re-grouping of, as suggested by manganese encephalopathy, T188

Falls, H. F., see Zeman, W., *334
Farber, L., see Duffell, D., T199
Feigin, I., see Popoff, N., T177, D183
Ferris, P. J., see Klatzo, I., *18
—, see Streicher, E., T170
Fetal spongioblastoma, *560
— encephalopathy, ovine, caused by bluetongue vaccine virus, *635
Fibrillar structure of glial cells in the optic nerve and the white matter, T162
Fine structural localization of acid phosphatase activity in neurons of Tay-Sachs disease, *676
— — — of nucleoside phosphatase activity in the blood-brain barrier, *46
Fixation and identification of glycogen in nervous tissue for light and electron microscopy studies, T181
Fluorescein labeled proteins, passage of, from the cerebrospinal fluid, *18
Foltz, E. L., see Rand, B. O., T180, *293
Friede, R. L., mechanisms involved in the production of reactive axonal swellings, T164, D165, T165, D166, D177, D191
—, and R. J. Allen, enzyme histochemical studies of Tay-Sachs disease, *619
Froelich, J. S., D199

Gajdusek D. C., see Neumann, M. A., T189, *486
Gamma globulin, multiple sclerosis, T193
Ganglia, dorsal root, a study of chromatolysis in, at the cellular level, *508
Ganglioneuroma, central, a case study by electron microscopy, T200, *692
Gillilan, L. A., the correlation of the blood supply to the human brain stem with clinical brain stem lesions, *78
Glial cells with fibrillar structure in the optic nerve and the white matter, T162
— fibers and myelin combined staining, new paraffin method, technical note, *156
Glioma cells grown in vitro, intranuclear inclusion bodies in, T197
Gliomas, intracerebral, in mice, effect of irradiation, on, *1, T195

Gliomas, experimental, mouse, ultrastructural and biochemical analysis in cerebral edema associated with, T182, *253
—, autotransplantation of, *324
Glutaraldehyde perfusion fixation for the electron microscopic study of the normal rat peripheral nervous system, comparison with osmium tetroxide perfusion fixation, *109
Glycogen, fixation and identification of, in nervous tissue for light and electron microscopy studies, T181
Goldfischer, S., the Golgi apparatus and the endoplasmic reticulum in neurons of the rabbit, *36
Golgi apparatus and the endoplasmic reticulum in neurons of the rabbit, *36
Gonatas, N. K., D161
—, S. R. Korey, and R. D. Terry, a case of juvenile lipoidosis, electron microscopic and biochemical observations of a cerebral biopsy, T185, D186
Gracile and cuneate nuclei of vitamin E-deficient rats, axonal dystrophy, an electron microscopic study of, *60, D166
Gustafson, K. A., see Tourtellote, W. W., T193

Haberland, C., primary systemic amyloidosis, cerebral involvement and senile plaque formation, *135
Haerer, A. F., see Tourtellote, W. W., T193
Haerer, H. A., see Tourtellote, W. W., T193
Handa, J., experimental studies on the production and prevention of cerebral infarction in dogs, *457
Haque, I. U., see Bakay. L., *393
Harkin, J. C., repair of peripheral nerves, electron microscopic studies, T164, D164, D167, D198
Harrell, L. H., see Tourtellote, W. W., T193
Hartmann, J. F., see Duffell, D., T199
Haymaker, W., D161, D162
—, see Estable-Puig, J. F., T175
—, D176, D177
Hemorrhages into peripheral nerves in association with leukemia, *719
Hendry, W. S., and D. M. Robertson, central ganglioneuroma, a case study by electron microscopy, T200, D200
—, see Robertson, D. M., *692
Hess, A. R., see Barron, K. D., T203
Heterotopic central nervous tissue pervading the subarachnoid space, T177
Hirano, A., see Tani E., T162, D163, D188
Histochemical observations on oxidative enzyme activity in tumors of the nervous system, T196
— study of Wallerian degeneration, T165
Histochemistry of particle microbeam lesions in the brain of the mouse, *264
Houten, W. H. van, and R. L. Friede, a histochemical study of Wallerian degeneration, T165
—, D166
Howes, E. L., see Price, H. M., T175

Infarction, cerebral, in dogs, experimental studies on the production and prevention of, *457
Influence of autolysis on the isolation and localization of acid phosphatases in rat brain, T202
Intracranial telencephalic meningo-encephalocele containing choroid plexus, T180, *293
Intramedullary neuromas of the spinal cord, T200
Intramitochondrial dense granules, formation of, in mice acutely poisoned with tetanus toxin, *306
Intranuclear inclusion bodies in glioma cells grown in vitro, T197
Irradiation of intracerebral gliomas in mice, *1

Johnstone, M. A., see Lapham, L. W., *156, *419

Källén, B., see Berg, O., *550
Kaluza, J. S., and Burstone, M. S., staining patterns in phosphatases of the central nervous system with azo-dye methods, *477
Katzman, R., see Aleu, F. P., T182, *253, D163, D168, D171, D172
Kernicterus in the Chinese newborn, a morphological and spectrophotometric study, *527
Kernohan, J. W., see Ramsey, H. J., *706
Kies, M., D194
Klatzo, I., J. Miquel, P. J. Ferris, J. D. Prokop, and D. E. Smith, observations on the passage of the fluorescein labeled serum proteins (flsp) from the cerebrospinal fluid, *18
—, D170
—, see Streicher, E., T170
—, see Smith, D. E., T172
—, obituary, Olszewski, J., *726
Klintworth, G. K., axon regeneration in the human spinal cord with formation of neuromata, *127
Koenig. H., T. McDonald, and G. Nellhaus, morphological and histochemical studies of neurolipidosis by light and electron microscopy, T191
—, D166, D167, D192
Korey, S. R., D185
—, see Gonatas, N. K., T185, D186, D191
Kovatch, R., see Pentschew, A., T188
Krigman, M. R., see Solitare, G. B., *280

Lampert, P., J. M. Blumberg, and A. Pentschew, an electron microscopic study of dystrophic axons in the gracile and cuneate nuclei of vitamin E-deficient rats, *60, T166
—, D161, D164, D167
—, see Pentschew, A., T188, D189
Langfitt, T. W., see Zacks, S. I., T161
Lapham, L. W., M. A. Johnstone, and K. H. Brundjar, a new paraffin method for

the combined staining of myelin and glial fibers, technical note, *156, D198, D199
—, and M. A. Johnstone, *419
Latent spinal cord and brain stem injury in the newborn, T178
Lazarus, S. S., see Wallace, B. J., *676
Lehrer, G., D191, D194
Leukemia, hemorrhages into peripheral nerves in association with, *719
Leukodystrophy, metachromatic, ultrastructural observations on, T184
Levine, S., D174
—, and E. J. Wenk, production of allergic encephalomyelitis in rats without the aid of adjuvants, T190, D190
Lindenberg, R., D179
Lipoidosis, juvenile, case of: electron microscopic and biochemical observations of a cerebral biopsy, T185
Liss, L., and L. Mervis, the ependymal lining of the cavum septi pellucidi: a histological and histochemical study, *355
—, D184, D197
Luse, S., D173
—, see Coxe, W. S., *431
Luxol fast blue MBSN, observations on the staining properties of, T181

Mackey, E. A., D. Spiro, and J. Wiener, a study of chromatolysis in dorsal root ganglia at the cellular level, *508
Manganese encephalopathy, re-grouping of the extrapyramidal diseases as suggested by, T188
McDonald, T., see Koenig, H., T191
Mechanisms involved in the production of reactive axonal swellings, T164
Meningo-encephalocele, intracranial telencephalic, containing choroid plexus, T180, *293
Metachromatic leukodystrophy, ultrastructural observations on, T184
Mervis, L., see Liss, L., *355
Microscopic distribution of water soluble compounds by autoradiography, *151
Miquel, J., see Klatzo, I., *18
—, see Estable, R. F. de, T181
Mitts, M. G., and A. E. Walker, autotransplantation of gliomas, *324
Molecular pathology, some basic principles of: ultracellular organelles as structural metabolic and pathogenetic gradients, T195, *209
Moore, M., D168
Morphological and histochemical studies of neurolipidosis by light and electron microscopic studies, T191
— and chemical studies in cerebral edema, I., cold induced edema, *393
Mucoviscidosis, neuroaxonal dystrophy in, *567
Multiple sclerosis gamma globulin, T193
— —, effect of mononuclear blood cells from, on neuroglia in tissue culture, *550
Muscle injury, electron microscopic observations of, T175
Myelin and glial fibers, combined staining, new paraffin method, technical note, *156

Nellhaus, G., see Koenig, H., T191
Nelson, E., D161, D174, D183
—, see Aurebeck, G., T184, D185, D198
—, see Duffell, D., T199
Neoplasm, intracranial, congenital, *280
Nerve fiber regeneration in rat cortex following damage from ionizing particle radiation, T175
Neumann, M. A., D187
—, D. C. Gajdusek, and V. Zigas, neuropathologic findings in exotic neurologic disorders among natives of the highlands of New Guinea, T189, D189, *486
Neuroaxonal dystrophy in mucoviscidosis, *567
Neuritis, post herpetic: a light and electron microscopic study, T161
Neuroglia, cytologic and cytochemical studies of, III., the DNA content of giant fibrous astrocytes with implications concerning the nature of these cells, *419
Neurolipidosis, morphological and histochemical studies of, by light and electron microscopy, T191
Neuromas, intramedullary, of the spinal cord, T200
Neuromata, formation of, in axon regeneration in the human spinal cord, *127
Neurons of the rabbit, the Golgi apparatus and endoplasmic reticulum, in, *36
Neuropathologic findings in exotic neurologic disorders among natives of the highlands of New Guinea, T189, *486
New paraffin method for the combined staining of myelin and glial fibers, technical note, *156
Newborn, latent spinal cord and brain stem injury in, T178
—, Chinese, kernicterus in, a morphological and spectrophotometric study, *527
Normal rat peripheral nervous system, comparison of osmium tetroxide and glutaraldehyde perfusion fixation for electron microscopic study, of, *109
Nosology, a study in, Pelizaeus-Merzbacher disease, *334
Nucleoside phosphatase activity in the blood-brain barrier, fine structural localization of, *46

Obituary, Jerzy Olszewski, *726
Observations on the passage of the fluorescein labeled serum proteins (flsp) from the cerebrospinal fluid, *18
— — — staining properties of luxol fast blue MBSN, T181
Olszewski, J., J. Steele, and J. C. Richardson, pathological report on six cases of heterogeneous system degeneration, T187, D188, D201
—, obituary, *726

Optic nerve and white matter, glial cells with fibrillar structure, in, T162
—, Wallerian degeneration of, electron microscopic study on, T162
Ordy, J. M., see Samorajski, T., *264
Osmium tetroxide perfusion fixation, comparison with glutaraldehyde perfusion fixation of the normal rat peripheral nervous system, *109
Osterberg, K., see Aurebeck, G., T184
Ovine fetal encephalopathy caused by bluetongue vaccine virus, *635
Oxidative enzyme activity in tumors of the nervous system, histological observations of, T196

Pandolfi, S., T169
Parker, J. A., see Tourtellote, W. W., T193
Particle microbeam lesions in the brain of the mouse, histochemistry of, *264
Pathological changes in brain and pial vessels in arterial border zones, T178
— report on six cases of heterogeneous system degeneration, T187
Pelizaeus-Merzbacher disease, a study in nosology, *334
Penetration of serum proteins into the choroid plexus, T172
Pentschew, A., see Lampert, P., *60
—, T166, D168, D179
—, F. Riopelle, R. Kovatch, and P. Lampert, re-grouping of the extrapyramidal system diseases as suggested by manganese encephalopathy, T188
Perfusion fixation in the electron microscopic study of the rat peripheral nervous system, T161
Periodic acid-Schiff staining properties of edema fluid isolated from brain, T169
Peripheral nerves, developing human, electron microscopy of, T163
— —, repair of electron microscopic studies of, T164
— —, hemorrhages into, in association with leukemia, *719
Peripheral nervous system, rat, use of perfusion fixation in the electron microscopic study of, T161
Peters, H. J., see Puchtler, H., T181
Phosphatase histochemistry of feline cervical spinal cord after brachial plexectomy; hydrolysis of beta-glycerophosphate thiamine pyrophosphate and nucleoside diphosphates, *368
—, acid, fine structural localization of activity in neurons of Tay-Sachs disease, *676
Phosphatases of the central nervous system, staining patterns of, with azo-dye methods, *477
Pitts, F. W., and H. E. Riggs, intramedullary neuromas of spinal cord, T200, D202
Popoff, N., and I. Feigin, heterotopic central nervous tissue pervading the subarachnoid space, T177
—, D178
Post herpetic neuritis: a light and electron microscopic study, T161
Presidential address, T195, *209
Price, H. M., E. L. Howes, Jr., and J. M. Blumberg, electron microscopic observations of muscle injury, T174
Primary systemic amyloidosis; cerebral involvement and senile plaque formation, *135
Production of allergic encephalomyelitis in rats without the aid of adjuvants, T190
Prokop, J. D., see Klatzo, I., *18
—, see Streicher, E., T170
Puchtler, H., and H. J. Peters, observations on the staining properties of luxol fast blue MBSN, T181

Radiation, ionizing particle, nerve fiber regeneration in rat cortex following damage from, T175
Radionecrosis, brain, chronic, a study in, *660
Ramsey, H. J., and J. W. Kernohan, circumscribed sarcoma of the cerebellum, an electron microscopic study, *706
Rand, B. O., E. L. Foltz, and E. C. Alvord, intracranial telencephalic meningoencephalocele containing choroid plexus, T180, *293
Ravens, J. R., D177, D198
Regeneration of axons in human spinal cord with formation of neuromata, *127
Re-grouping of the extrapyramidal system diseases as suggested by manganese encephalopathy, T188
Repair of peripheral nerves: electron microscopic studies, T164
Richardson, J. C., see Olszewski J., T187
—, D188, D189
Riggs, H. E., see Pitts, F. W., T200
Riopelle, F., see Pentschew, A., T188
Robertson, D. M., see Hendry, W. S., T200
—, W. S. Hendry, and F. S. Vogel, central ganglioneuroma: a case study using electron microscopy, *692
Roizin, L., presidential address, some basic principles of "molecular pathology": 3 ultracellular organelles as structural-metabolic and pathogenetic gradients, T195, *209 D176, D180, D186
Romanul, F. C. A., and A. Abramowicz, pathological changes in brain and pial vessels in arterial border zones, T178, D179, D201
Rosenblum, W. I., and B. W. Zweifach, cerebral vasospasm induced by barium chloride and its interaction with other agents, T168, D168
Rubenstein, L. J., and C. H. Sutton, histochemical observations on oxidative enzyme activity in tumors of the nervous system, T196
—, D165, D197, D200, D203
Rudnick, P., see Brun, A., *719

Samorajski, T., W. Zeman, and J. M. Ordy, histochemistry of particle microbeam lesions in the brain of the mouse, *264

Sarcoma, circumscribed of the cerebellum, an electron microscopic study, *706
Sayre, G. P., D202
Schreinberg, L. C., see Edelman, F. L., *1, T195
—, see Aleu, F., T182, *253
Senile plaque formation and cerebral involvement in primary systemic amyloidosis, *135
Serum proteins, penetration of, into the choroid plexus, T172
Shanklin, W. M., see Brownson, R. H., *660
Sheff, M. F., see Zacks, S. I., *306
Smith, D. E., see Klatzo, I., *18
—, E. Streicher, and I. Klatzo, the penetration of serum proteins into the choroid plexus, T172
—, D172, D173
Solitare, G. B., and M. R. Krigman, congenital intracranial neoplasm, a case report and review of the literature, *280
Soloway, A. H., see Zervas, N. T., *151
Some basic principles of "molecular pathology"; 3 ultracellular organelles as structural-metabolic and pathogenetic gradients, *209
Spinal cord, human, axon regeneration in, with the formation of neuromata, *127
— — and brain stem injury in the newborn, latent, T178
— —, intramedullary neuromas of, T200
Spiro, D., see MacKey, E. A., *508
Spongioblastoma, fetal, *560
Staining, combined of myelin and glial fibers, new paraffin method, technical note, *156
— properties of luxol fast blue MBSN, observations on the, T181
— patterns of phosphatases of the central nervous system with azo-dye methods, *479
Steele, J., see Olszewski, J., T187
Streicher, E., P. J. Ferris, J. D. Prokop, and I. Klatzo, volume changes produced in edematous cat brain by local cold injury, T170
—, D171
—, see Smith, D. E., T172
Striato-nigral degeneration, *584
Study in chronic brain radionecrosis, *660
Study of chromatolysis in dorsal root ganglia at the cellular level, *508
Studies on tetanus toxin, I. Formation of intramitochondrial dense granules in mice acutely poisoned with tetanus toxin, *306
Subarachnoid space, heterotopic central nervous tissue pervading the, T177
Sulfate space in cerebral edema in cats, T173
Sung, J. H., neuroaxonal dystrophy in mucoviscidosis, *567
Suter, D. B., see Diller, D. A., T176, *446
—, see Brownson, R. H., *660
Sutton, C. H., see Rubenstein, L. J., T196
Swaiman, K., see Aurebeck, G., T184
System degeneration, heterogeneous, pathological report on six cases, T187

Tani, Eiichi, Asao Hirano, and H. Zimmerman, glial cells with fibrillar structure in the optic nerve and the white matter, T162
—, electron microscopic, study on Wallerian degeneration of optic nerve, T162, D162
Tay-Sachs disease, enzyme histochemical studies of, *619
— —, fine structural localization of acid phosphatase activity in neurons of, *676
Tennyson, V., D163, D172, D181, D200
Terry, R. D., T162, D167
—, see Gonatas, N. K., T185, D186, D192
Tetanus toxin, studies on, I. Formation of intramitochondrial dense granules in mice acutely poisoned with tetanus toxin, *306
Third ventricle, colloid cyst of, an electron microscopic study of, *431
Tobias, C., see Estable-Puig, J. F., T175
Torack, R. M., and R. J. Barrnett, the fine structural localization of nucleoside phosphatase activity in the blood-brain barrier, *46
Tourtellote, W. W., J. A. Parker, A. F. Haerer, L. H. Harrell, H. A. Haerer, K. A. Gustafson, and R. N. DeJong, multiple sclerosis gamma globulin, T193, D194
Towbin, A., T178
Tumors of the nervous system, histochemical observations on oxidative enzyme activity, T196
Tuncbay, T. O., see Barron, K. D., *368
Tyler, H. R., see Brun, A., *719

Ultracellular organelles as structural metabolic and pathogenetic gradients, some basic principles of molecular pathology, T95, *209
Ultrastructural and biochemical changes in cerebral edema associated with experimental mouse gliomas, T182, *253
—, observations on metachromatic leukodystrophy, T184

Vasospasm, cerebral, induced by barium chloride and its interaction with other agents, T168
Ventricles, rat ciliary movement in, clearing action and direction of currents, *609
Vessels, brain and pial, pathological changes in, in arterial border zones, T178
Vitamin E-deficient rats, electron microscopic study of dystrophic axons in gracile and cuneate nuclei of, *60
— — —, axonal dystrophy, an electron microscopic study of the gracile and cuneate nuclei of, T166
Vogel, F. S., see Robertson, D. M., *692
Volk, B. W., see Wallace, B. J., *676
Volume changes produced in edematous cat brain by local cold injury, T170

Waggener, J. D., electron microscopic studies of brain barrier mechanisms, T174, D174